20040301.ba v03_n612.bam.20040301

>From ???@??? Mon Mar 1 00:01:13 2004 -0600
Message-Id: <200403010600.i2160erv000994@sco.theporch.com>
Date: Mon, 1 Mar 2004 00:00:02 CST
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 3612

BOATANCHORS Digest 3612

Topics covered in this issue include:

1) Neutralization with no power applied
   by "Bob Kemp" <bkemp@bobkemp.com>
2) BC-211-? ID
   by scb@hiwaay.net
3) Re: Neutralization with no power applied
   by Edward Knobloch <k4pf@juno.com>
4) Re: Neutralization with no power applied
   by W7QHO@aol.com
5) Re: Neutralization with no power applied
   by "Arden Allen" <gumbear@pacbell.net>
6) Re: Need Info
   by "Al Parker" <anchor@ec.rr.com>
7) FS cheap: Jackson Model 640 sig gen (link to pix)
   by john <johnmb@nc.rr.com>
8) Re: Neutralization with no power applied
   by "Sandy W5TVW" <ebjr@i-55.com>
9) SX-88 Bezel
   by "Gary H. Harmon, Jr." <gharmon@idworld.net>

Message-ID: <000c01c3fe79$4d2564a0$6501a8c0@radio>
From: "Bob Kemp" <bkemp@bobkemp.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Neutralization with no power applied
Date: Sat, 28 Feb 2004 22:05:41 -0600
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

What was the steps to neutralize a transmitter without it being powered on.?
A number of years back I recall reading about it....I think it involved
hooking your receiver up to the transmitter someway and tuning for a null
!??? Just don't recall.
Bob.

From: scb@hiwaay.net
To: Old Tube Radios <boatanchors@theporch.com>
Date: Sat, 28 Feb 2004 22:41:12 -0600
MIME-Version: 1.0
Subject: BC-211-? ID
Message-ID: <40411908.969.291FDB2@localhost>
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

Greetings all;
I acquired a stripped & cannabalized WW-II freq meter a while ago and set it back for a then-unkown special 'someday' project. I was very impressed with the build quality and was curious abt the version & mfgr. Like to find a complete working ident twin. Data plate was gone from panel.
The salient features are slope-stepped chassis, power flick-switch under stacked ant/gnd terminals upper left panel, twin side-by-side phone jacks under the 'gain' control lower-left panel with a Farnsworth-style skirted metal knob, and a small shaped metal-finished escutcheon under the dial-left knob marked "lock" with curved arrows. Secondary controls lined across lower panel. Not Philco -AE, BTW, seen those.
Pics of the on-going project, if needed, at
<http://www.crystalradio.net/baldyodyne/tk2/index.shtml >
It's a DX pleasure/contest-class BCB passive crystal set if one were curious to purpose. Who knew one could hear Denver & NYC from N.E. Alabama on a crystal set with an indoor antenna?
The power switch went thru the hole now occupied by the antenna tuner shaft bushing. The gnd terminal was moved to an existing empty hole bottom panel center and it's original holes blanked with the skirted cross-head dress screw. The antenna coupling unit occupies the old antenna term hole.
The case is ham-fest salvage from an obviously different unit with a top-mount antenna post, the carcass came minus a case.

Can anyone ID this recycled carcass for me?
Thank you in advance for any assistance.
Steve Bringhurst

To: Old Tube Radios <boatanchors@theporch.com>
Cc: boatanchors@theporch.com
Date: Sun, 29 Feb 2004 00:04:48 -0500
Subject: Re: Neutralization with no power applied
Message-ID: <20040229.000449.1060.0.k4pf@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

From: Edward Knobloch <k4pf@juno.com>

"Bob Kemp" <bkemp@bobkemp.com> writes:

> What was the steps to neutralize a transmitter without it being
> powered on.?
> A number of years back I recall reading about it....I think it
> involved
> hooking your receiver up to the transmitter someway and tuning for a
> null

Hi, Bob

To neutralize a transmitter without having it powered up,
you begin by putting a carbon resistor from the plate of the transmitter
output tubes to ground, of a value equal to the tubes at resonance.
E.g., for 800V at 250mA, you use a 3.2K resistor.
(Leave the tubes in the rig, so you don't change the capacitance to
ground).
Then, connect an RX noise bridge preset for 50 Ohms to the output
of the transmitter, using your receiver as a null detector.
Set the transmitter to its highest band.
Set the receiver to the highest frequency of the highest band.
Force the transmitter antenna relay closed, if present.
Adjust the transmitter plate tune and load capacitors
to null the white noise heard in the receiver
(start the tuning with the load capacitor fully meshed).

Now, without touching the tune and load capacitor settings,
or the resistor, remove the RX noise bridge, and attach
a signal generator via a 50 Ohm pad to the output of the transmitter,
at the same (high) frequency. Connect the receiver
to the grid of the output tube (using a divide by ten 'scope probe).
Adjust the neutralization capacitor
for minimum signal heard in the receiver. End of neutralization.
Don't forget to remove the carbon resistor.

73,
Ed Knobloch

From: W7QHO@aol.com
Message-ID: <a0.65ac182.2d72ff6f@aol.com>
Date: Sun, 29 Feb 2004 03:40:15 EST
Subject: Re: Neutralization with no power applied
To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0
Content-Type: multipart/alternative; boundary="part1_a0.65ac182.2d72ff6f_boundary"

```
--part1_a0.65ac182.2d72ff6f_boundary
Content-Type: text/plain; charset="ISO-8859-1"
Content-Transfer-Encoding: quoted-printable


In a message dated 2/28/04 9:06:27 PM, k4pf@juno.com writes:


> To neutralize a transmitter without having it powered up,
> you begin by putting a carbon resistor from the plate of the transmitter
> output tubes to ground, of a value equal to the tubes at resonance.=A0
> E.g., for 800V at 250mA, you use a 3.2K resistor.=A0
> (Leave the tubes in the rig, so you don't change the capacitance to
> ground).=A0
> Then, connect an RX noise bridge preset for 50 Ohms to the output
> of the transmitter, using your receiver as a null detector.=A0
> Set the transmitter to its highest band.
> Set the receiver to the highest frequency of the highest band.
> Force the transmitter antenna relay closed, if present.
> Adjust the transmitter plate tune and load capacitors
> to null the white noise heard in the receiver
> (start the tuning with the load capacitor fully meshed).
>=20
> Now, without touching the tune and load capacitor settings,
> or the resistor, remove the RX noise bridge, and attach
> a signal generator via a 50 Ohm pad to the output of the transmitter,
> at the same (high) frequency.=A0 Connect the receiver
> to the grid of the output tube (using=A0 a divide by ten 'scope probe).=
=A0
> Adjust the neutralization capacitor
> for minimum signal heard in the receiver.=A0 End of neutralization.=A0
> Don't forget to remove the carbon resistor.
>=20
>=20
Ed,

Never tried this, but adjustment of the neutralizing capacitor usually=20
affects the resonance of the plate tank circuit.   Seems it would be necessa=
ry to=20
repeat this procedure several times to achieve complete neutralization.   Ma=
ybe=20
in practice one iteration comes out close enough in most cases?

Dennis D. W7QHO
Glendale, CA
```

```
--part1_a0.65ac182.2d72ff6f_boundary
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

* * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
*         ---REMAINDER OF MESSAGE TRUNCATED---            *
*     This post contains a forbidden message format       *
*  (such as an attached file, a v-card, HTML formatting)  *
*    Mail Lists at theporch.com only accept PLAIN TEXT    *
* If your postings display this message your mail program *
* is not set to send PLAIN TEXT ONLY and needs adjusting  *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

--part1_a0.65ac182.2d72ff6f_boundary--
```

```
------------------------------
Message-ID: <000f01c3fea6$ca4ee460$ffe47443@KB6NAX>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Neutralization with no power applied
Date: Sun, 29 Feb 2004 01:31:15 -0800
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
```

Just a comment, Ed;

> ......(Leave the tubes in the rig, so you don't change the capacitance to ground). ....

The purpose of the neutralizing circuit is to form a capacitive balancing bridge, one part of the capacitance bridge being the tube's grid-plate capacitance (yes, don't remove the tube!). A transmitter is neutralized when the bridge is adjusted such that the *positive* feedback caused by tube capacitance is cancelled by *negative* feedback introduced by the correct amount of neutralizing capacitance. The transmitter correctly neutralized will not oscillate at or near the tank's resonant frequency. Neutralizing a transmitter does NOT correct problems with VHF parasitic oscillations. That's another problem for another time........

Arden Allen
KB6NAX

```
------------------------------
Message-ID: <119301c3fed3$fcc4db20$3201a8c0@w8ut>
From: "Al Parker" <anchor@ec.rr.com>
```

To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Need Info
Date: Sun, 29 Feb 2004 09:54:52 -0500
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Jack,
    I'm pretty sure I've got it here somewhere, if not in a file, I can scan one from a bottom cover.
    Let me know if you don't get one this AM, I'll search.
Al, W8UT
New Bern, NC
BoatAnchors appreciated here
http://www.thecompendium.net/radio/
http://www.hammarlund.info

----- Original Message -----
From: <Jderm740@aol.com>
To: "Old Tube Radios" <boatanchors@theporch.com>
Sent: Saturday, February 28, 2004 10:41 PM
Subject: Need Info

>
>
> Hi Guys
>
> Does anyone have a wireing diagram for a D-104 mike? I'm concerned about the
> PPT switch. The Transcevier I have has to have the PPT switch totally seperate
> from the mike audio lines. I could take it apart but would prefer not to if I
> don't have top.
>
> Jack   KB1IJP
>

Message-Id: <3.0.3.32.20040229115306.02726c10@pop-server.nc.rr.com>
Date: Sun, 29 Feb 2004 11:53:06 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: john <johnmb@nc.rr.com>
Subject: FS cheap: Jackson Model 640 sig gen (link to pix)
Mime-Version: 1.0
Content-Type: multipart/mixed; x-avg-checked=avg-ok-38691595;

boundary="=======3FAD519C======="

--=======3FAD519C=======
Content-Type: text/plain; x-avg-checked=avg-ok-38691595; charset=us-ascii
Content-Transfer-Encoding: 8bit

Excess to my needs, nice Jackson model 640 sig gen. Has 400hz audio (works) and 6 bands (100hz-30mhz) , which I've verified works on all but band "F".

Can't be too much to fix, but if you want it for parts, it's got a wonderful vernier drive and all coils are plug in type.

http://www.old-radios.com/siggen2.jpg

Everything you need for a regen, including plug in coils!

How's $18 bux, plus shipping?

John K5MO

--=======3FAD519C=======
Content-Type: text/plain; charset=us-ascii; x-avg=cert; x-avg-checked=avg-ok-38691595
Content-Disposition: inline

Checked by AVG anti-virus system (http://www.grisoft.com).
Version: 6.0.580 / Virus Database: 367 - Release Date: 2/6/04

--=======3FAD519C=======--

Message-ID: <00e401c3ff0b$f18d5380$a9a1cdd1@s0023531634>
From: "Sandy W5TVW" <ebjr@i-55.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Neutralization with no power applied
Date: Sun, 29 Feb 2004 15:24:47 -0600
MIME-Version: 1.0
Content-Type: text/plain;
    charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Normally, drive is applied to the amplifier being neutralized.
Amplifier heater or filament should be lit, but NO screen or plate volts should be applied. Grid circuit tuned for max grid current.

With a detector coupled to plate tank circuit, tune tank for maximum signal. Adjust neutralizing capacitor for minimum signal or a "null". Repeat with grid tuning, plate tuning and neutralizing capacitor until no improvement can be made.

In the case of push-pull amplifier, adjust both neutralizing caps in small increments, keeping both capacitors meshed about the same amount until no improvement can be made.

If you are using a Pi-Network "tank" circuit, terminate it in the "usual" load (50 or 75 ohms usually).

If you have a sensitive RF voltmeter, connect it across the terminated amplifier's output jack and use this as your output indicator.

73,
Sandy W5TVW
----- Original Message -----
From: "Bob Kemp" <bkemp@bobkemp.com>
To: "Old Tube Radios" <boatanchors@theporch.com>
Sent: Saturday, February 28, 2004 10:05 PM
Subject: Neutralization with no power applied

| What was the steps to neutralize a transmitter without it being powered on.?
| A number of years back I recall reading about it....I think it involved
| hooking your receiver up to the transmitter someway and tuning for a null
| !??? Just don't recall.
| Bob.
|
|

From: "Gary H. Harmon, Jr." <gharmon@idworld.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: SX-88 Bezel
Date: Sun, 29 Feb 2004 19:04:06 -0600
Message-ID: <LKBBJFJHLNHAIBLNCHMEEEMEEBAB.gharmon@idworld.net>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hank Arney/KN6DI is looking into making a third run of reproduction bezels for the Hallicrafters SX-88 receiver. The bezel is new and made from 6061 aluminum, milled on a CNC, then media blasted and wrinkle powder coated. Hank expects a bezel shipped CONUS UPS to be $350. Firm pre-paid orders (check, money orders or PayPal) for a total of 10 units are required before

Hank will proceed. If firm pre-paid orders exceed 10, the price will drop $50 each. Please contact Hank directly at hankarn@pacbell.net and Cc: me if you wish. I bought one from the last run and it's a great product. There is no other alternative if you have a warped bezel. I can provide pictures if requested.

73, gary

===========/////===========

Gary H. Harmon, Jr. - K5JWK
6302 Robin Forest
San Antonio, TX 78239-3218
(210) 657-1549 home
(210) 884-6926 cell
(210) 203-7000 pager
gharmon@idworld.net

End of BOATANCHORS Digest 3612
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